Challenge Checklist

Prior to Activity:		
	Go to the NASA Exploration Design Challenge Groups/Individuals page to register	
	You will receive a confirmation email upon registering	
	Collect materials on the materials list	
During the Activity:		
	Use the NASA EDC presentation PDF and script to guide instruction	
	If working with a large group, group participants into teams of 4-6	
	Watch introductory video(s) found on the Exploration Design Challenge homepage	
	Pass out materials to each group	
	Conduct investigation	
	Record observations on Ray Shielding data sheets	
	Pass out Design Packet to each group/student	
	Grades K-5 http://www.nasa.gov/sites/default/files/716282main_edc_design_packet_k-5.pdf	
	Grades 6-12 http://www.nasa.gov/sites/default/files/716281main_edc_design_packet_6-12.pdf	
	Use the <i>Design Packet</i> to guide radiation shielding designs	
	(Optional) Using the materials tested, create a radiation shield that blocks visible light and Ultra Violet (UV) light (sun), if using UV beads	
	(Optional) Insert UV beads into the design to serve as sensors for UV light	
	Test model indoors with flashlight in a darkened area (Shield should block all visible light so no glow can be seen.)	
	(Optional) Take the model outdoors to test effectiveness of radiation shield (If UV beads do not turn color, shield was effective.)	
	Record results	

Following the Activity:	
	Submit participant names through the link on the confirmation email
	Download participation certificates for each child and for the group leader
	Additional Activities/Videos may be used to extend children's understanding about radiation and shielding (see additional resources on the Exploration Design Challenge page)